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	Application No.	Applicant(s)
Notice of Allowability	10/539,179	FROSIEN ET AL.
	Examiner	Art Unit
	Nikita Wells	2881
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $\underline{\mbox{"Preliminary Amend}}$	dment" received 16 June 200	<u>5</u> .
2. The allowed claim(s) is/are <u>1-28</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority a) ☑ All b) ☐ Some* c) ☐ None of the:		or (f).
1. Certified copies of the priority documents ha		·
2. Certified copies of the priority documents ha	• •	
Copies of the certified copies of the priority of	documents have been receive	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g		
5. CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.	. •
(a) ☐ including changes required by the Notice of Draftspe		w (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in		
 DEPOSIT OF and/or INFORMATION about the department department regarding REQUIREMEN 	DOSIT OF BIOLOGICAL MAT T FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s)	• 🗖	formal Balance A. A. H. H.
1. Notice of References Cited (PTO-892)		nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948	6. ∐ Interview S Paper No.	dummary (PTO-413), /Mail Date
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's	: Amendment/Comment
Paper No./Mail Date 16 June 2005 4. Examiner's Comment Regarding Requirement for Deposit	t 8. ⊠ Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	_3
		Nikita Wells Primary Examiner Art Unit: 2881

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DETAILED ACTION

1. The Applicant amended all the claims 1-28 according to the "Preliminary Amendment" received June 16, 2005.

Allowable Subject Matter

- 2. Claims 1-28 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

With respect to the independent claims 1, 21, and 26, prior art fails to disclose or make obvious, in combination with other recited features of the claim limitations, an optical system for a charged particle multi-beam system, comprising: an electrostatic lens component for a plurality of charged particle beams having at least two electrostatic sub-lenses; and a magnetic lens component for a plurality of charged particle beams having at least two magnetic sub-lenses, wherein the sub-lenses share a common excitation coil; wherein the electrostatic and the magnetic lens component form a multi-lens for a plurality of charged particle beams having at least two sub-lenses; and wherein each sub-lens comprises an opening for a charged particle beam; and each sub-lens is adapted to focus a charged particle beam.

The novel aspect of the invention, not disclosed in prior art, is the use of electrostatic and magnetic lenses plus having at least two electrostatic sub-lenses and at least two magnetic sub-lenses (forming a multi lens) to focus a plurality of charged particle beams where each sub-lens focuses a charged particle beam.

The dependent claims 2-20, 22-25, and 27-28, are allowable by virtue of their dependence upon the independent claims 1, 21, and 26, respectively.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Both Muraki et al. (6,784,442 B2) and Lo et al. (6,750,455 B2) disclose optical system for a charged particle multi-beam system, comprising multiple magnetic lenses for focusing the plurality of charged particle beams.

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The central fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Nikita Wells, Primary Examiner

Nicleita Wells

Art Unit 2881 March 29, 2007